PATENT & TRADEMARK OFFICE
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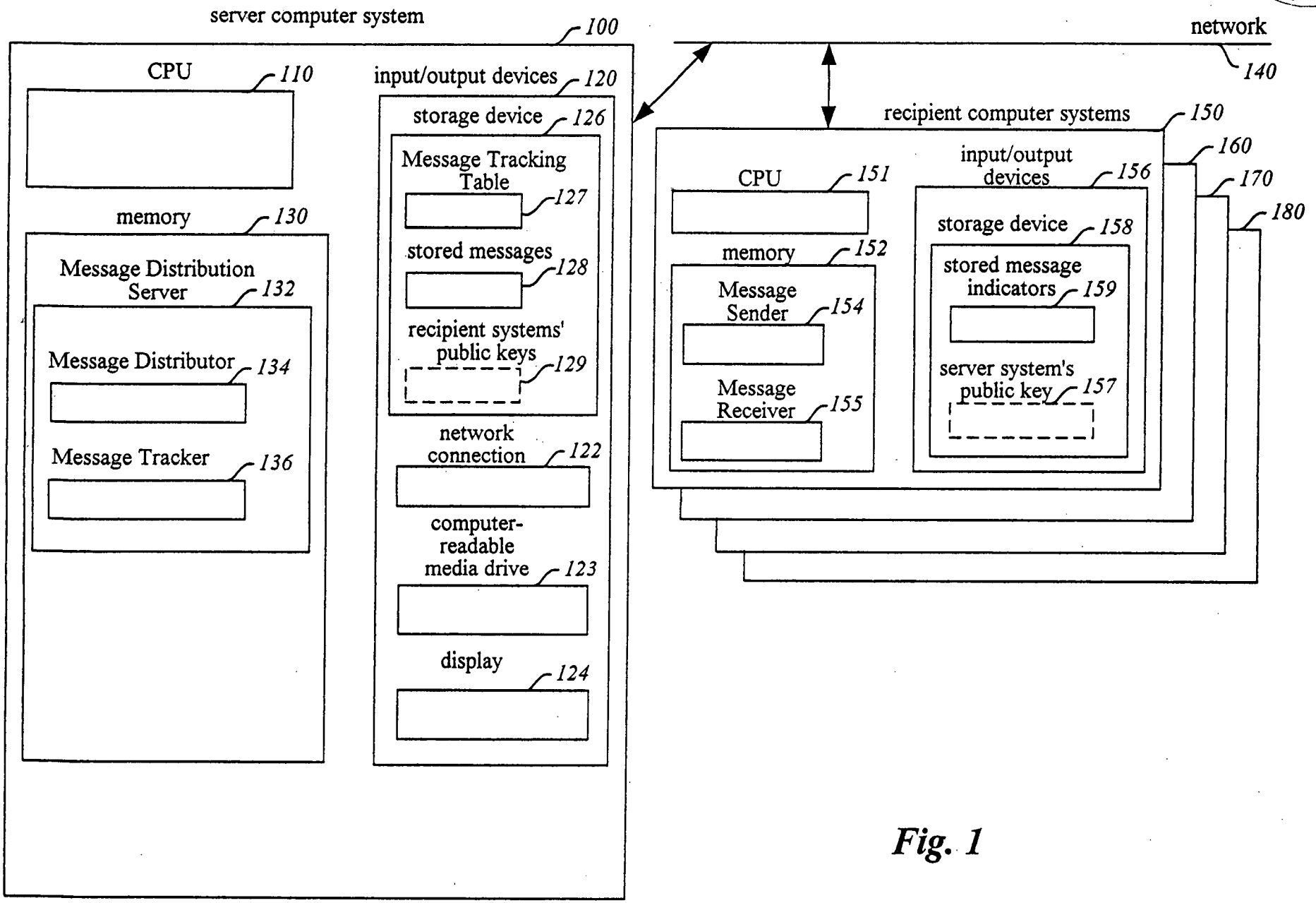


Fig. 1

Replacement Sheet

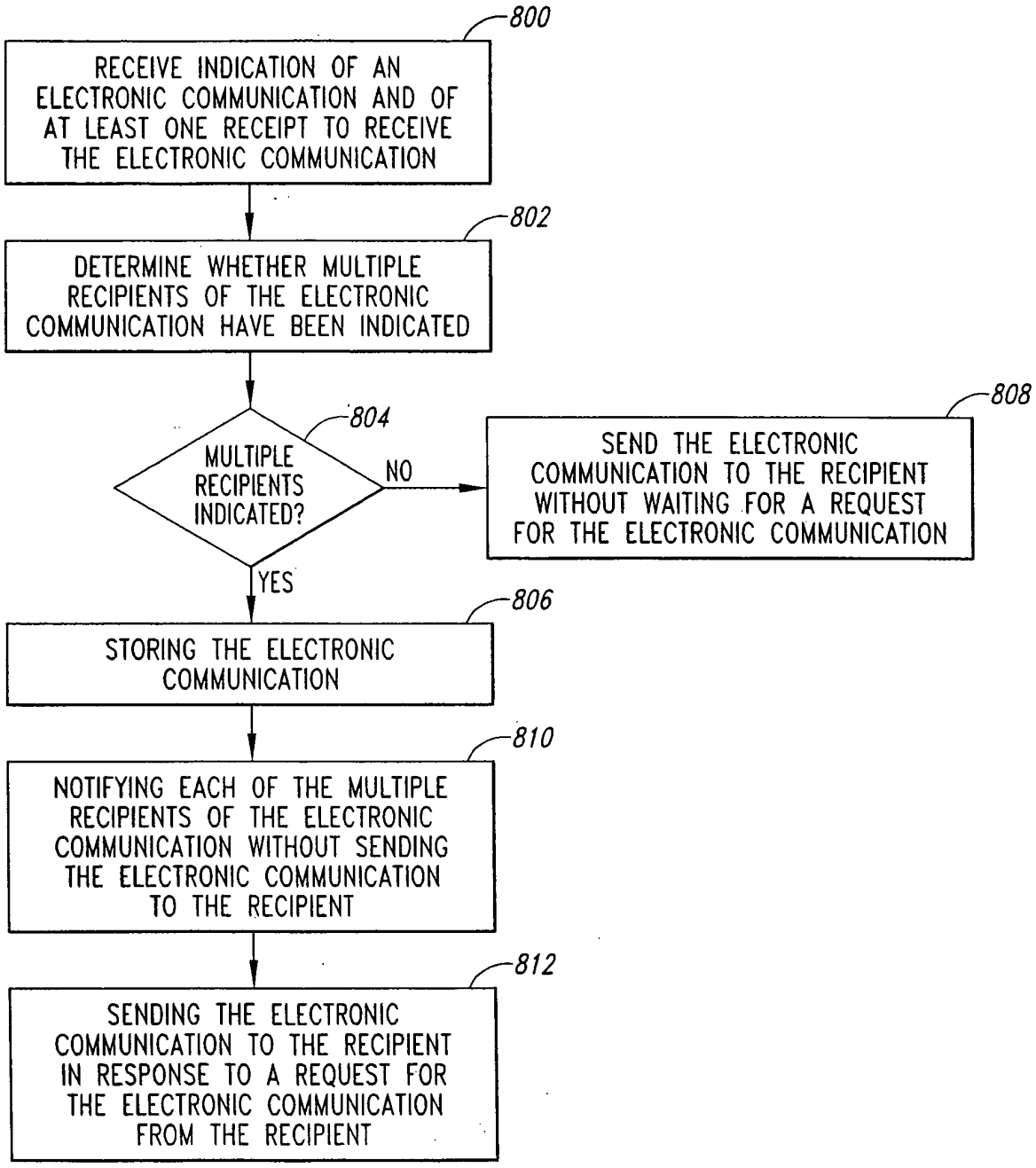

800
RECEIVE INDICATION OF AN ELECTRONIC COMMUNICATION AND OF AT LEAST ONE RECEIPT TO RECEIVE THE ELECTRONIC COMMUNICATION
802
DETERMINE WHETHER MULTIPLE RECIPIENTS OF THE ELECTRONIC COMMUNICATION HAVE BEEN INDICATED
804
MULTIPLE RECIPIENTS INDICATED?
NO
808
SEND THE ELECTRONIC COMMUNICATION TO THE RECIPIENT WITHOUT WAITING FOR A REQUEST FOR THE ELECTRONIC COMMUNICATION
YES
806
STORING THE ELECTRONIC COMMUNICATION
810
NOTIFYING EACH OF THE MULTIPLE RECIPIENTS OF THE ELECTRONIC COMMUNICATION WITHOUT SENDING THE ELECTRONIC COMMUNICATION TO THE RECIPIENT
812
SENDING THE ELECTRONIC COMMUNICATION TO THE RECIPIENT IN RESPONSE TO A REQUEST FOR THE ELECTRONIC COMMUNICATION FROM THE RECIPIENT

Fig. 1A

Message Tracking Table 127

Message ID	Time Sent	Expiration Time	Recipient Status
1	06/07/XX 08:15		
2	06/08/XX 13:37	2 weeks	
⋮			

Recipient	Review Flag	Save Flag
ABC		X
BCD	X	
CDE	X	X

Recipient	Review Flag	Save Flag
ABC	X	
XYZ	X	X

Fig. 2

Replacement Sheet

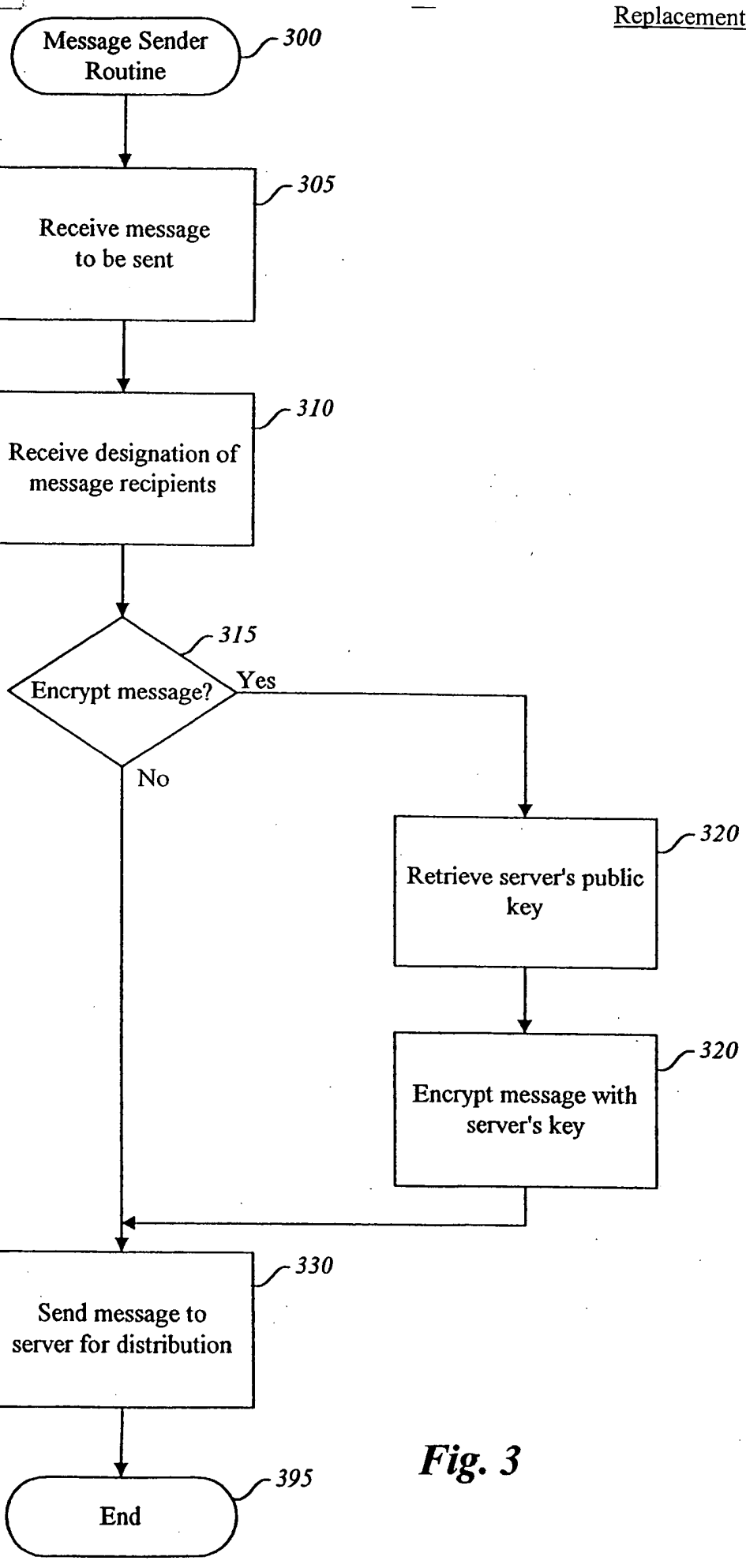

Message Sender Routine
300
Receive message to be sent
305
Receive designation of message recipients
310
Encrypt message?
315
Yes
No
Retrieve server's public key
320
Encrypt message with server's key
320
Send message to server for distribution
330
End
395

Fig. 3

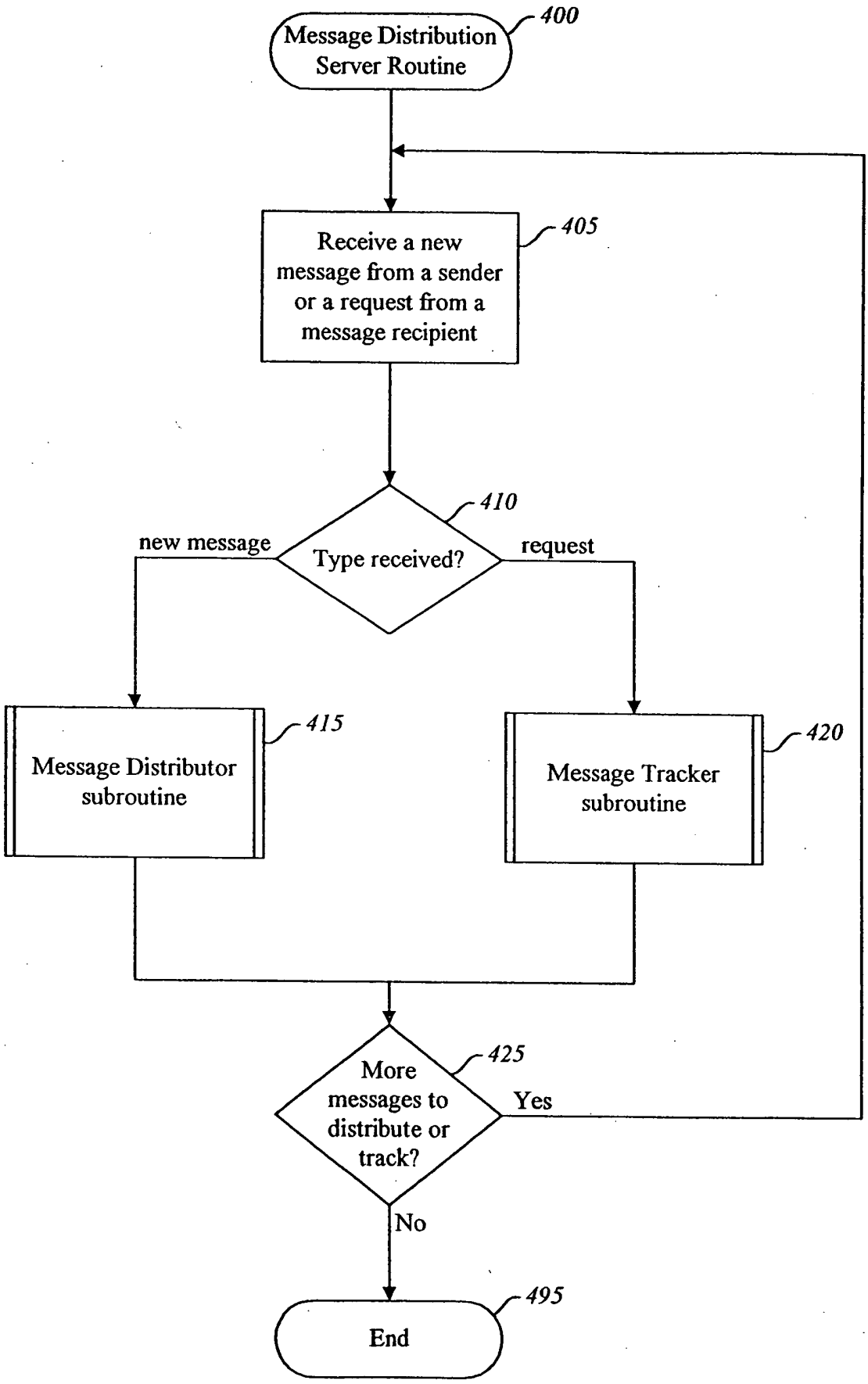

Message Distribution Server Routine
400
Receive a new message from a sender or a request from a message recipient
405
Type received?
410
new message
request
Message Distributor subroutine
415
Message Tracker subroutine
420
More messages to distribute or track?
425
Yes
No
End
495

Fig. 4

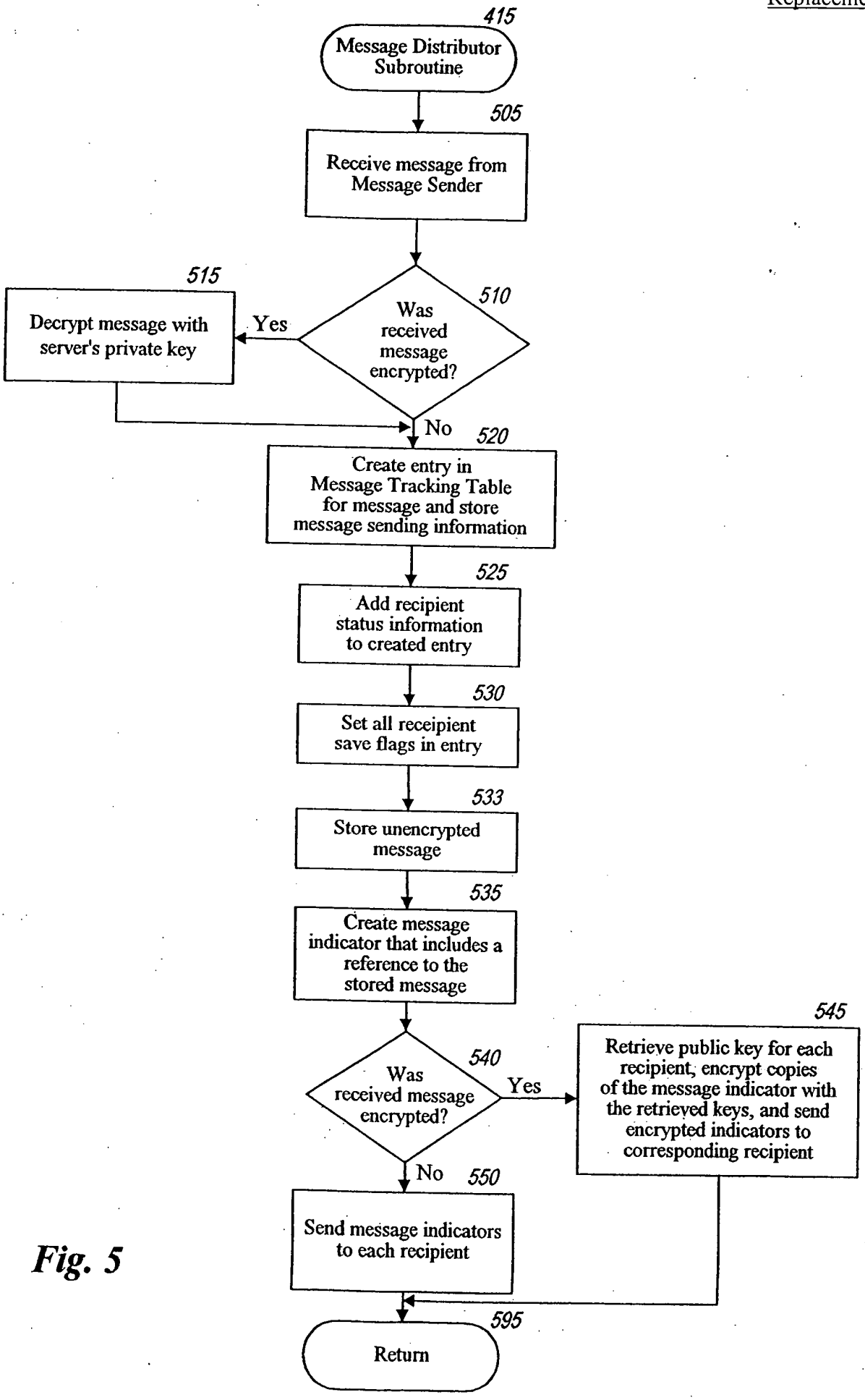

415
Message Distributor Subroutine
505
Receive message from Message Sender
510
Was received message encrypted?
Yes
515
Decrypt message with server's private key
No
520
Create entry in Message Tracking Table for message and store message sending information
525
Add recipient status information to created entry
530
Set all receipient save flags in entry
533
Store unencrypted message
535
Create message indicator that includes a reference to the stored message
540
Was received message encrypted?
Yes
545
Retrieve public key for each recipient, encrypt copies of the message indicator with the retrieved keys, and send encrypted indicators to corresponding recipient
No
550
Send message indicators to each recipient
595
Return

Fig. 5

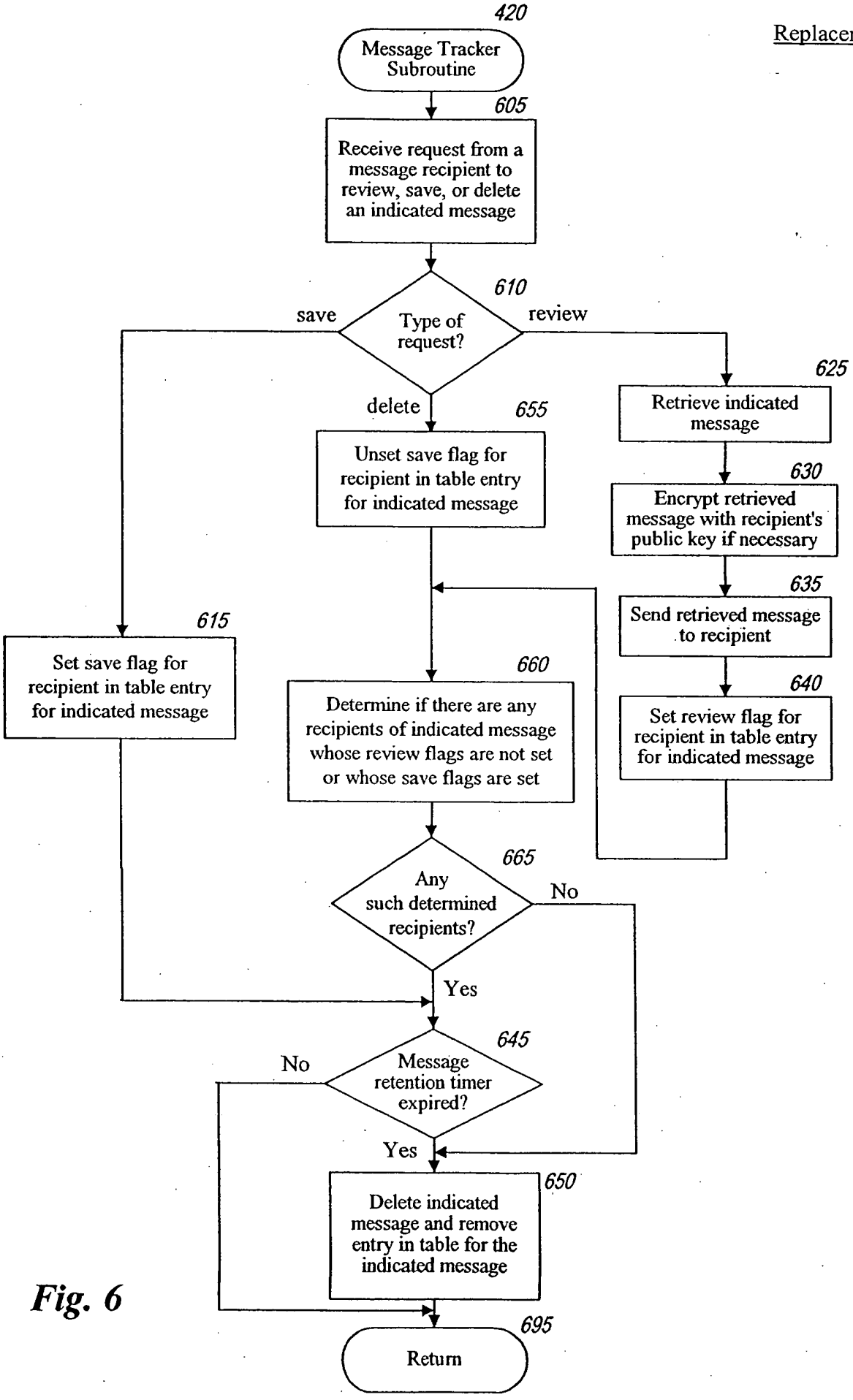
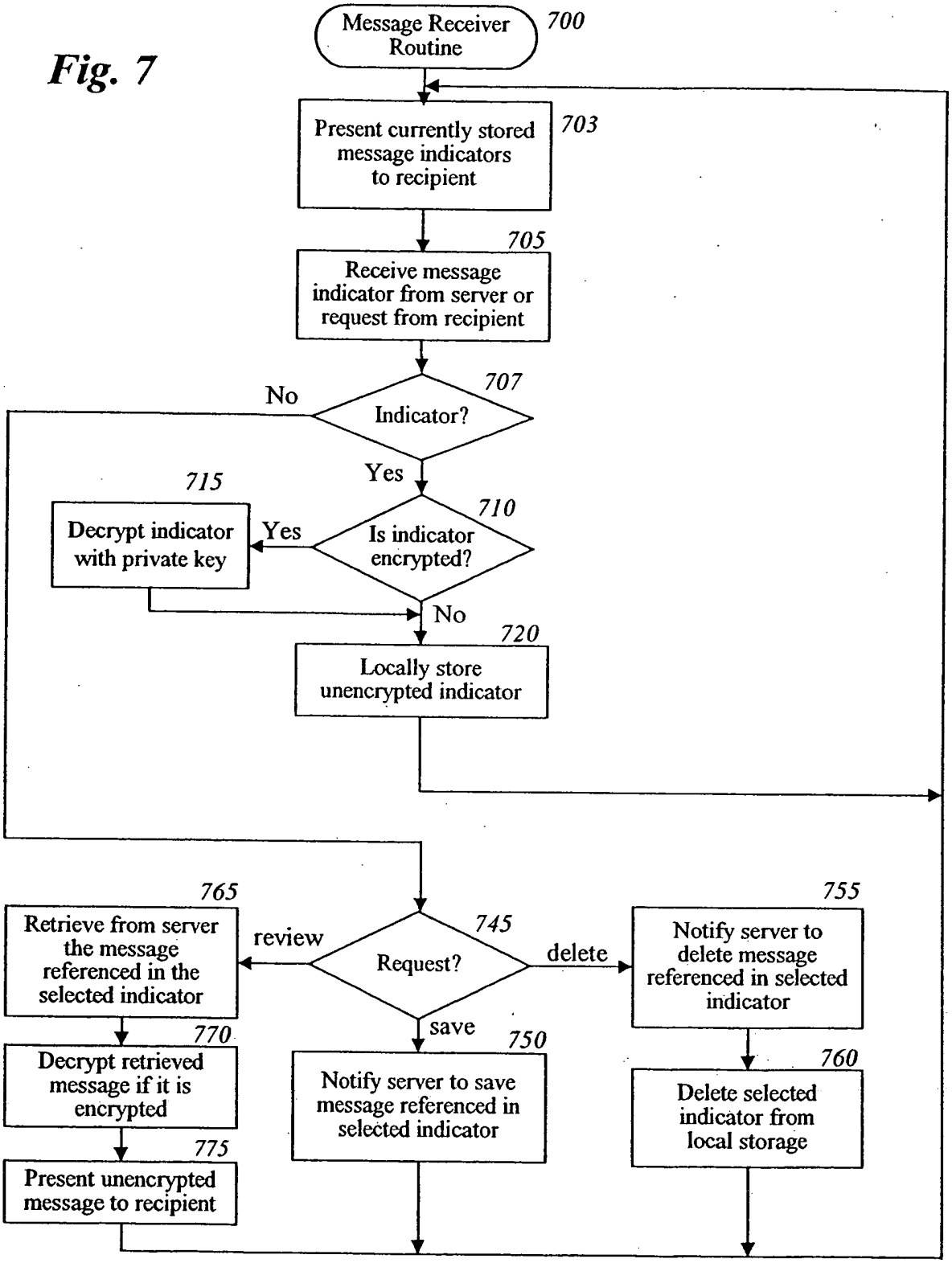

420
Message Tracker Subroutine
605
Receive request from a message recipient to review, save, or delete an indicated message
610
Type of request?
save
review
delete
615
Set save flag for recipient in table entry for indicated message
655
Unset save flag for recipient in table entry for indicated message
625
Retrieve indicated message
630
Encrypt retrieved message with recipient's public key if necessary
635
Send retrieved message to recipient
640
Set review flag for recipient in table entry for indicated message
660
Determine if there are any recipients of indicated message whose review flags are not set or whose save flags are set
665
Any such determined recipients?
No
Yes
645
Message retention timer expired?
No
Yes
650
Delete indicated message and remove entry in table for the indicated message
695
Return

Fig. 6

Fig. 7


Message Receiver Routine
700
Present currently stored message indicators to recipient
703
Receive message indicator from server or request from recipient
705
Indicator?
707
No
Yes
Is indicator encrypted?
710
Yes
Decrypt indicator with private key
715
No
Locally store unencrypted indicator
720
Request?
745
review
delete
save
Retrieve from server the message referenced in the selected indicator
765
Decrypt retrieved message if it is encrypted
770
Present unencrypted message to recipient
775
Notify server to save message referenced in selected indicator
750
Notify server to delete message referenced in selected indicator
755
Delete selected indicator from local storage
760